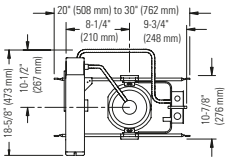
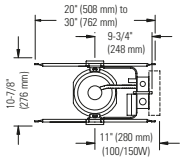
Calculite® HID Downlight **C7E170VW**

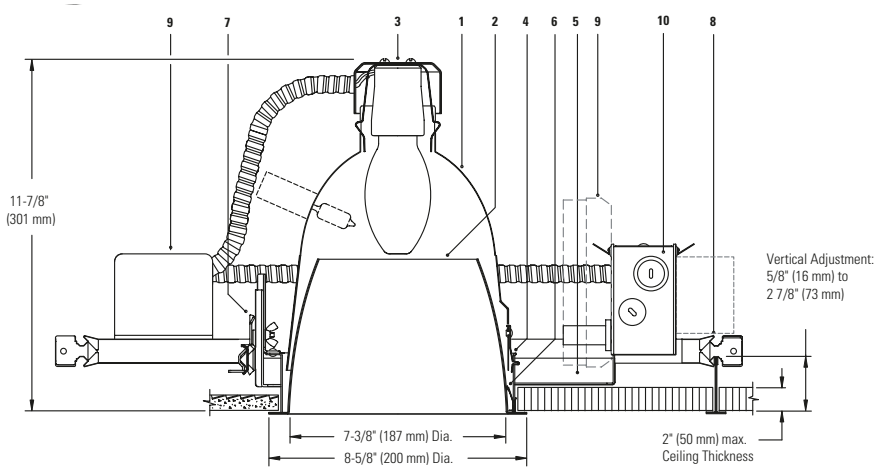
7" Aperture, ED17 (Open Rated) Ceramic Metal Halide, Wide Beam



Top View (Magnetic Ballast)



Top View (Electronic Ballast)



Ceiling Cutout: 8" (203 mm) Dia.

Reflector Trim			Frame-In Kit	Lamp (Coated, Ceramic MH)
C7E170VW	**CLW**	Specular Clear, White Painted Flange.	**C770MHOE1** Electronic 120V / **C770MHOE2** Electronic 277V	70W E17, ED17, BD17 (Open Rated)
	CLP	Specular Clear, Matching Flange.	**C710MHOE1** Electronic 120V / **C710MHOE2** Electronic 277V	100W E17, ED17, BD17 (Open Rated)
	CCDW	Comfort Clear Diffuse, White Painted Flange.	**C715MHOE1** Electronic 120V / **C715MHOE2** Electronic 277V	150W E17, ED17, BD17 (Open Rated)
	CCDP	Comfort Clear Diffuse, Matching Flange.	**C770MHOU** Magnetic 120V/277V	70W E17, ED17, BD17 (Open Rated)
	CCZW	Champagne Bronze, White Painted Flange.	**C710MHOU** Magnetic 120V/277V	100W E17, ED17, BD17 (Open Rated)
	CCZP	Champagne Bronze, Matching Flange.	**C715MHOU** Magnetic 120V/277V	150W E17, ED17, BD17 (Open Rated)

Features

1. **Upper Reflector:** Clear anodized aluminum, 0.040" (16-ga.). Provides wide beam distribution.
2. **Aperture Cone:** Provides 50° visual cut-off to lamp and lamp image; self-flange in painted white or aperture-matching polished flange. Consult factory for other finishes.
3. **Socket Cup:** Galvanized steel, pre-wired with medium base pulse rated socket. Snaps onto upper reflector for secure attachment without tools; unitized construction assures proper lamp alignment to optics for consistent performance.
4. **Mounting Ring:** 0.048" (18-ga.) galvanized steel. Designed for vertical adjustment from above or below. For ceiling from 0" to 2" thick. Center line notches allow consistent alignment of multiple fixtures.
5. **Mounting Frame:** 0.048" (18-ga.) galvanized steel includes pre-installed mounting bars.
6. **Aperture Cone Retention Springs:** Rust resistant springs secure cone in place for quick, tool-less installation.
7. **Frame Vertical Adjustment Mechanism:** Vertical adjustment mechanism accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be pre-set prior to installation.
8. **Mounting Bars:** 0.048" (18-ga.) Pre-installed, telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
9. **Ballast:** Electronic 120V or 277V. Magnetic dual voltage (120V & 277V). Accessible from below for inspection and/or replacement without tools.
10. **Junction Box:** 0.048" (18-ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors; allows inspection from below.
11. **Thermal Protector:** (Not Shown) Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.

Electrical

Electronic Ballast: 120 or 277V, 50/60 Hz., encased, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC Part 18 non-consumer limits, shut-down circuit at end of lamp life, sound rating "A", -5°F minimum starting temperature, Type 1 Outdoor rating.

Electrical (cont.)

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M139	120/277	0.67/0.29	78
100W MH	M90/M140	120/277	0.90/0.43	110
150MH	M102	120/277	1.40/0.61	167

Magnetic Ballast: 120/277V dual voltage, 60 Hz., encased and potted, HX-HPF circuit type, high power factor, sound rating "B", -20°F minimum starting temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	1.90/0.80	94
100W MH	M90/M140	120/277	2.40/1.10	125
150MH	M102	120/277	3.70/1.60	180

Options and Accessories

Auxiliary: Add suffix **A** to Frame-In Kit and Reflector Trim. See Spec. Sheet "A/E"
Emergency Lamp: Add suffix **E** to Frame-In Kit and Reflector Trim. See Spec. Sheet "A/E"
Slope Ceiling Adapters: See Specification Sheet SCA.
Fuse (magnetic ballast): Add suffix **F1 or F2** to Frame-In Kit (F1=120V, F2=277V)
Chicago Plenum: Consult Factory.

Labels

UL (Suitable for Damp Locations), CSA, I.B.E.W. For 150W, install fixtures with minimum spacing: 3 feet from center-to-center of adjacent luminaries; 3 inch from top of luminaire to overhead building member;1 1/2 feet from luminaire center to side building member.

Job Information Type:

Job Name:

Cat. No.:

Lamp(s):

Notes:

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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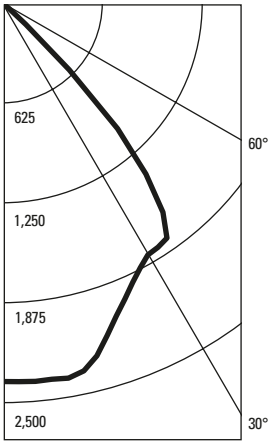
LIGHTOLIER®

70W ED17 PHILIPS CMH LAMP, LUMEN RATING = 5700 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH REFLECTOR TRIM



ANGLE	MEAN CP	LUMENS
0	2368	
5	2376	227
10	2383	
15	2285	640
20	2084	
25	1929	898
30	1820	
35	1795	1069
40	1397	
45	592	510
50	51	
55	10	17
60	5	
65	2	2
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY - CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	33868
55	713
65	157
75	0
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1765	30.97	52.49
0-40	2834	49.73	84.27
0-60	3361	58.97	99.93
0-90	3363	59.01	100
40-90	529	9.28	15.73
60-90	2	0.04	0.07
90-180	0	0	0
0-180	3363	59.01	100

Coefficients of Utilization

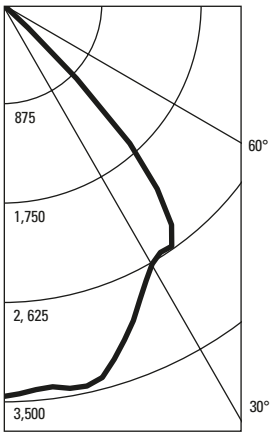
CEILING	80%				70%		50%		30%		
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.70	.70	.70	.70	.69	.69	.66	.66	.63	.63	.59
1	.67	.65	.64	.63	.64	.62	.62	.60	.60	.58	.55
2	.64	.61	.59	.57	.60	.56	.58	.55	.57	.54	.52
3	.61	.57	.54	.52	.56	.52	.55	.51	.53	.50	.48
4	.58	.53	.50	.48	.53	.47	.52	.47	.50	.46	.45
5	.55	.50	.46	.44	.49	.44	.48	.43	.47	.43	.42
6	.52	.47	.43	.41	.46	.40	.45	.40	.44	.40	.39
7	.49	.43	.40	.37	.43	.37	.42	.37	.41	.36	.35
8	.46	.40	.36	.34	.39	.34	.39	.34	.38	.33	.32
9	.43	.37	.33	.31	.37	.31	.36	.31	.36	.30	.29
10	.40	.34	.30	.28	.34	.28	.33	.28	.33	.28	.27

LUMINAIRE INPUT WATTS = 78.0

** EFFICIENCY = 59.0% **
SC = 1.2

CERTIFIED TEST REPORT NO. 2373FR, DATE: FEB 10, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

100W ED17- PHILIPS CMH LAMP, LUMEN RATING = 8500 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH REFLECTOR TRIM



ANGLE	MEAN CP	LUMENS
0	3454	
5	3405	327
10	3433	
15	3401	948
20	3144	
25	2867	1333
30	2639	
35	2600	1564
40	2121	
45	924	784
50	78	
55	9	22
60	1	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY - CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	52847
55	607
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2607	30.68	52.39
0-40	4171	49.08	83.81
0-60	4977	58.56	99.99
0-90	4977	58.56	100
40-90	805	9.48	16.19
60-90	0	0	0.01
90-180	0	0	0
0-180	4977	58.56	100

Coefficients of Utilization

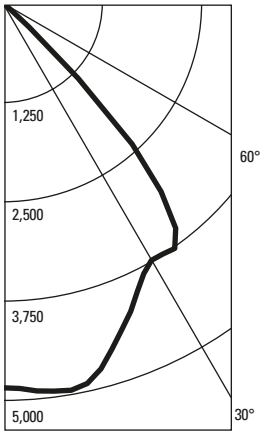
CEILING	80%				70%		50%		30%		
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.70	.70	.70	.70	.68	.68	.65	.65	.62	.62	.59
1	.67	.65	.64	.62	.64	.61	.61	.59	.59	.58	.55
2	.63	.61	.59	.57	.60	.56	.58	.55	.56	.54	.52
3	.60	.57	.54	.52	.56	.51	.54	.50	.53	.50	.48
4	.57	.53	.50	.47	.52	.47	.51	.47	.50	.46	.45
5	.54	.49	.46	.43	.49	.43	.48	.43	.47	.43	.41
6	.51	.46	.43	.40	.46	.40	.45	.40	.44	.39	.38
7	.48	.43	.39	.37	.42	.36	.42	.36	.41	.36	.35
8	.45	.40	.36	.34	.39	.33	.39	.33	.38	.33	.32
9	.43	.37	.33	.30	.36	.30	.36	.30	.35	.30	.29
10	.40	.34	.30	.28	.33	.28	.33	.28	.33	.27	.27

LUMINAIRE INPUT WATTS = 110

** EFFICIENCY = 58.6% **
SC = 1.1

CERTIFIED TEST REPORT NO. 2374FR, DATE: FEB 10, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

150W ED17- PHILIPS CMH LAMP, LUMEN RATING = 11900 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH REFLECTOR TRIM



ANGLE	MEAN CP	LUMENS
0	4841	
5	4899	467
10	4947	
15	4765	1336
20	4373	
25	4003	1865
30	3737	
35	3769	2257
40	3096	
45	1336	1139
50	116	
55	21	37
60	9	
65	2	3
70	0	
75	0	0
80	0	
85	0	0
90	0	

LUMINANCE SUMMARY - CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	76396
55	1479
65	193
75	0
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3668	30.83	51.63
0-40	5925	49.79	83.4
0-60	7101	59.68	99.95
0-90	7104	59.7	100
40-90	1179	9.91	16.6
60-90	3	0.03	0.05
90-180	0	0	0
0-180	7104	59.7	100

Coefficients of Utilization

CEILING	80%				70%		50%		30%		
WALL	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%										
0	.71	.71	.71	.71	.69	.69	.66	.66	.64	.64	.60
1	.68	.66	.65	.63	.65	.62	.62	.61	.60	.59	.56
2	.65	.62	.60	.58	.61	.57	.59	.56	.57	.55	.52
3	.61	.58	.55	.52	.57	.52	.55	.51	.54	.50	.49
4	.58	.54	.51	.48	.53	.48	.52	.47	.51	.47	.45
5	.55	.50	.47	.44	.50	.44	.48	.44	.48	.43	.42
6	.52	.47	.43	.41	.46	.40	.45	.40	.45	.40	.39
7	.49	.43	.40	.37	.43	.37	.42	.37	.41	.37	.36
8	.46	.40	.36	.34	.40	.34	.39	.34	.39	.33	.32
9	.43	.37	.33	.31	.37	.31	.36	.31	.36	.30	.29
10	.40	.34	.30	.28	.34	.28	.33	.28	.33	.28	.27

LUMINAIRE INPUT WATTS = 167

** EFFICIENCY = 59.7% **
SC = 1.2

CERTIFIED TEST REPORT NO. 2375FR, DATE: FEB 10, 2004
COMPUTED BY LSI PROGRAM **TEST-LITE**

Job Information Type:

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